



Dart Hawkesbury
1270 Aberdeen St. Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040267	ACI001-VC	1	1	Net 30	M303R1.000	303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				12	7/11/2018	12		S089469	Stock	7/5/2018	\$ 8.70 / ft	1		\$104.43	Acier Ouellette Inc.
		3			MT-A513-T- 0.8750W0.120	A513 Seamless Alloy Steel Round Tubing 0.875" dia. x 0.120" Wall				100		107		S089470	Stock	7/5/2018	\$ 2.36 / ft	1		\$252.47	Acier Ouellette Inc.
		5			M304B0.500X012.000	304 Bar .500 X 12.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				6		6		S089471	Stock	7/5/2018	\$ 86.95 / ft	1		\$521.70	Acier Ouellette Inc.
		6			M6061T6S1.750X10.000	6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061- T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft				24		24		S089472	Stock	7/5/2018	\$ 22.16 / ft	1		\$531.80	Acier Ouellette Inc.

7/6/2018

Print

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Past Days	Total	Supplier Name	
		1			M4140H-R0.375	4140 Round Bar .375 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/-A193-03- GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft						37		S089473	Stock	7/5/2018	\$ 1.92 / ft	1	\$70.61	Acier Ouellette Inc.	
										Total:	166		186								\$1,126.99

Plex 7/6/2018 8:55 AM dart.Tollis.Andrew



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

C000096399

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N°
Date
Delivery date
Your order N°
Processed by
Salesman
Carrier
Credit Terme

CLI0001056
2018/06/20
2018/07/03
040267
Eric Kaehlert
OUELLETTE VALLEYFIELD
Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND SS 1 303 (R) RSS-1303 1 X 12' R/L ** CERTIFICATE ** LINE: 1 Heat: 620M	32.04	12.00	PL \$CLB		1 X 12' 11"					
2 TUBE MEC 0.875 OD X .120 (R) TME-0875120 5 X 20' R/L ** CERTIFICATE ** LINE: 3 Heat: 17202415	96.80	100.00	PL \$CPI		3 X 23' 10" 1 X 23' 11" 1 X 11' 11" DC					
3 PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 1 PC 3-1/2" X 6' ** CERTIFICATE ** LINE: 4 ACI7566-FU-2018-06-28	35.73	1.75	PI2		B/O					
4 PLATE SS 1/2 SS304 HRAP RANDOM PSS-12 1 PC 12" X 6' ** CERTIFICATE ** LINE: 5 AC-17565-SUP-2018-06-26	129.98	6.00	PI2		12 X 73"					



DELIVERY - CLIENT

CO00096399

Product Description	Qty	Weight	UM	PCS NB		Internal Use Only						
				CMD	EXP	B/O	IN	I	S	C	OUT	
Heat: 624038 5 ALU PLATE 1 3/4 6061-T651 RANDOM PAL-1346061-V 7458 2 PCS 10" X 12' ** CERTIFICATE ** LINE: 6 AC-17564-TH-2018-06-26 Heat: 12-5159	100.28	4.00	PI2									
6 ROUND 4-1/2 ANNEALED 3/8 (R) R4140-38A 4951 3 X 12' R/L ** CERTIFICATE ** LINE: 7 ** TRANSIT ST-JEROME 26-06 ** Heat: 889039	9.02	24.00	PI_\$CLB									

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 403.85
NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Date



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040267

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040267

PO Date: 6/20/18

Due Date: 6/28/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
JUN 20 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quote sou0113485

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 ✓ AT		M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	6/28/18	12 ft ✓	0 ft 12 ft	12 ft	\$8.7025/ft At 18/07/06	\$104.43
2		M304R3.750		304/316 Round Bar Ø3.750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE	Firmed	7/16/18	3 ft	0 ft	3 ft	\$265.00/ft	\$795.00
3 ✓ AT		MT-A513-T- 0.8750W0.120		A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120" Wall	Firmed	6/28/18	100 ft ✓	0 ft 100	100 ft	\$2.3595/ft At 18/07/06	\$235.95
4		MT-4140-S-0.500X3.500		AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC	Firmed	6/28/18	6 ft	0 ft	6 ft	\$18.94333/ft	\$113.66

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Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M304B0.500X012.000		304 Bar .500 X 12.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/28/18	6 ft	0 ft	6 ft	\$86.95/ft	\$521.70
✓ AT							✓	6 ft		AT 18/07/06	
6		M6061T6S1.750X10.000		6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$22.158333/ft	\$531.80
✓ AT							✓	24 ft		AT 18/07/06	
Line Item Note PLEASE CUT BAR IN HALF 6 FT LENGTH											
7		M4140H-R0.375		4140 Round Bar .375 : AISI 4140H ROUND BAR PER AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03- GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$1.92125/ft	\$46.11
✓ AT							✓	24 ft		AT 18/07/06	
										Grand Total: \$2,348.65	

Order Notes

Procurement Quality Clauses
 A005 right of entry
 A012 chemical and physical test report
 A016 personnel qualification
 A017 raw material identification (as applicable)
 A026 certification of material conformance
 A041 quality management system
 A042 dart notification by supplier
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Plex 6/20/18 1:07 PM dart.lavoie.chantal

aperam

Correspondence address:
Aperam Genk
Swinnewijweg 5, Poort Genk 7523
3600 Genk, Belgium
Tel. +32 (0)89 30 21 11

MILL CERTIFICATE BS EN 10204/3.1
CERTIFICAT DE RECEPTION NF EN 10204/3.1
ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1

N-Nr-N 16K0043312-01 V01

Certified acc. PED 2014/68/EC Annex 1 § 4.3 by Certification Body 0036 of TÜV SÜD Industrie Service GmbH with cert. No. 314/2007/MUC. Renounced of counter signature agreed by TÜV SÜD (9/5/2007). Approved acc. AD 2000-Merkblatt W0/TRD 100 by TÜV SÜD Industrie Service GmbH. Confirmation letter from TÜV SÜD Industrie Service GmbH of 07/05/2010 about the uniformity of coils acc. AD 2000 W2 § 4.1.1

Tech. Req.: AD 2000 W2-AD 2000 W19-EN 13445-2-NR(TUV): 01 202 926/V04 (007)

Manufacturer's works order number
N° de la commande usine productrice
Werksauftragsnummer
80287576/02-20638/338/02

Surveyor's mark
Cachet de l'expert
Stempel des
Werkssachverständigen

GNKI

Purchaser and/or consignee
Client et/ou destinataire
Besteller und/oder Empfänger

Purchaser's order number
N° de commande client
Kundenbestellnummer
13001

Product - Produit - Erzeugnis
SHEETS, HOT ROLLED, ANNEALED+PICKLED
TOILES, LAMINES A CHAUD, RECUITS+DECAPES
BLECHT, WARMGEWALZT, GEGLUEHT+GEBLIZT

Customer article number
N° article client
Artikelnummer des Kunden
760105078125

Steel designation
Designation de l'acier
Stahlbezeichnung
EN 10028-2-2008 1.4307 / 1.4301
ASTM A 240-2015 TYPE 304L 304
ASME SA 240-2013 TYPE 304L 304

Finish
Présentation
Ausführung

Steelmaking process
Mode d'élaboration de l'acier - Stahlherstellungsverfahren
Prod. process: Electric arc furnace - VOD/AOD - Continuous casting
Proc. fabric.: Four à arc - VOD/AOD - Coulée continue
Fertigungsablauf: Elektro-Ofen - VOD/AOD - Stranggussanlage

Product delivery condition
Etat de livraison du produit - Lieferzustand
Solution treated:
Hypertempe: 1050 °C
Lösungsgegl./abgeschreckt:

Any supplementary requirements
Prescriptions supplémentaires - Zusätzliche Anforderungen

Forced air-water/air forced-air
Geflüss Luft-Wasser

AMS 5511-H01 -- ASTM A276 (CHEM. COMP) -- ASTM A312(M) (CHEM. COMP) -- MAT MERCURY FREE -- NO WELD REPAIRING

Identification of the product
Identification du produit - Identifizierung des Erzeugnisses
MELTED IN BELGIUM, MADE IN BELGIUM

Coil n.
N. Bobine - Band Nr.
62403821

Heat n.
N. Caille - Schmelz-Nr.
624038

Thickness
Epaisseur - Stärke
12.70 mm
0.500 "

Width
Largeur - Breite
2000.00 mm
78.740 "

Length
Longueur - Länge
3175.00 mm
125.000 "

Number of pieces
Nb de pièces - Stückzahl
24
Net weight
Poids net - netto Gewicht
15420 KG

CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG

	C	SI	Mn	Ni	Cr	Mo	Ti	N	S	P										
Required - Exigé Anforderung	0.030	0.75	2.00	8.00 10.50	17.50 19.50			0.100	0.015	0.045										
Cast Analysis Analyse coulée Analyse Schmelze	0.023	0.44	1.50	8.03	18.00			0.070	0.005	0.029										
	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90

Positive material identification carried out: OK
Tests de vérification de la conformité de la nuance fournie: OK
Verwechslungsprüfung wurde durchgeführt: OK

Location (1)

MECHANICAL PROPERTIES - PROPRIETES MECANQUES - MECHANISCHE WERTE EN ISO 6892-1 B / A-SA 370

Direction (2)
Required
Exigé
Anforderung

Yield or proof strength
Limite d'élasticité
Dehngrenze
KSI

Tensile strength
Résistance à la traction
Zugfestigkeit
KSI

Elongation after fracture
Allongement après rupt.
Bruchdehnung
%

Hardness
Dureté
Haute

Yield or proof strength
Limite d'élasticité
Dehngrenze
KSI

Tensile str.
Résist. KSI
Zugfestigkeit
Bruchdehnung

1 T
2

Obtained
Obtenu
Ergebnisse

Rp0.2% Rp1% Rm

A5 50mm HRB

45 45 92 89 96

Rp0.2% Rp1% Rm A5

C11 C14 C12 C13 C15 C31 C18 C17 C18 C19

Impact strength test
Essai de résilience
Kerbschlagzähigkeitstest

Corrosion test
Test de corrosion
Korrosionstest

C40 (°C) C44

EN ISO 3651/2 - A: OK

C42 C51 C52 C53 C54 C55 C56

Location of the sample (1)
Emplacement de l'échantillon
Lage des Probenabschnitte
1. Front - Début - Anfang
2. Back - Fin - Ende
3. Middle - Milieu - Mitte

The delivery is in accordance with the order
La fourniture est conforme aux exigences de la commande
Die Lieferung entspricht den Bestellbedingungen

Packaging list
Avis d'expédition
Lieferscheinnummer
160800665-100564

Organisation inspection
Organisme et/ou service contrôle
Überwachungsabteilung

Quality Department
31/8/2016

Direction of the test pieces (2)
Orientation des éprouvettes
Probenrichtung
T. Transverse - Travers - Quer
L. Longitudinal - Long - Längs

Marking, inspection and measurement: without objection
Contrôle de marquage, d'aspect et de dimensions: satisfaisants
Prüfung der Stempelung, des Oberflächenaspekts und der Abmessungen: ohne Beanstandung

The Inspector
Le responsable
Der Werkssachverständige

D. Ramaekers

Z02

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240
PART NUMBER: M304B | T.TTT | X | WWW.WWWW |
| THICK | | WIDTH |

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWWW" = WIDTH IN INCHES

△ EG. 0.5" x 3.0" BAR = M304B0.500X03.000
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 08-Q20A	CP	08.07.15
A	NEW ISSUE	PH	05.08.10
REV.	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN	PH		
CHECKED	PH		
MFG. APPR.	M304B		
APPROVED	TITLE		
DE APPR.	304/316 BAR/PLATE		
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. C	
DRAWING NO.		SHEET 1 OF 1	
M304B		SCALE	
TITLE		NTS	
304/316 BAR/PLATE		NTS	
COPYRIGHT © 2005 BY DART AEROSPACE LTD			
ALL RIGHTS RESERVED. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 304 B2.500 x 0.12.00
 DATE: 18/07/06

PO / BATCH NO.: P0040267/5089471

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"
 THICKNESS RECEIVED: 0.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	AS/M A240
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	LT: 624038
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>A/P.D.</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Dart

Page 01 of 02

Certification Date
25-APR-2018

4951
CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T378710

AC00015271
PART NUMBER/NUMÉRO DE PIÈCE
505914

SOLD TO: ACIER OUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
3/8 RD X 12' R/L
HEAT: 889039
ITEM: 505914

ASTM A108
Line Total: 45 LB

Specifications:
ASTM A108 13

ASTM A331* 00

ASTM A322

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	CR	NI
0.42	0.97	0.0090	0.026	0.26	0.15	1.00	0.06
MO	SN	V	CB	AL			
0.18	0.0090	0.004	0.004	0.03			

RCPT: R440399

END-QUENCH HARDENABILITY (JOMINY - RC) COUNTRY OF ORIGIN : USA

1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
57	57	57	57	57	57	57	57	56	54	50	50	18	48	47
24	28	32												
46	44	40												

GRAIN SIZE : 5 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut. The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
25-APR-2018

Invoice Number
T378710

AC00015271
PART NUMBER/NUMÉRO DE PIÈCE
505914

SOLD TO: ACIER OUELLETTE INC
VENDU À: 22 BOULEVARD J-F KENNEDY
ST JEROME QC J7Y 4B6

SHIP TO:
EXPÉDIÉ À:

ACIER OUELLETTE INC.
22 BOULEVARD J F KENNEDY
SAINT JEROME QC J7Y 4

Description: 4140/4142 CF ANN BAR
3/8 RD X 12' R/L
HEAT: 889039

ITEM: 505914

ASTM A108
Line Total: 45 LB

COMMENTS

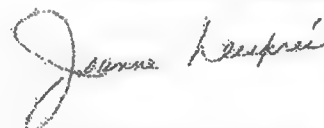
reduction ratio 292.0:1
country of melt and origin: united states

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-8C /

-A193-03- GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA

EG. 7/8" ROUND BAR = M4140H-R0.875

RELEASED
15.02.25

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140H-R0.375

PO / BATCH NO.: 80040267/5089469

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 36.75'

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 36.75'

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM A322
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	MT: 889039
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT/PP</u>	SIGNED OFF BY: _____	
DATE: <u>18/07/06</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PO/Rel

BL VIM-000000-000

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultent

de l'analyse faite par un laboratoire qualifié.

SIGNE PAR:

Atm:

Pg 1/1

PART NO.



INSPECTION CERTIFICATE № 17.120421

EN 10204 - 3.1

Consigner: KAMENSK URALSKY METALLURGICAL WORKS 5, Zavodskaya Str., Kamensk-Uralsky, Sverdlovsk Region, 623405, Russia Tel: +7 (3439) 39 54 17 Fax: +7 (3439) 39 52 49						JOINT STOCK COMPANY					
Buyer:						Quantity, pcs: 4					
Consignee:						Net Weight, kg.: 2220					
P.O. No: VIM-841201						S.O. No: N17063					
Article No:						Item No: 1.5					
						Package No: 609317					
Description of Goods: Plates						Requirements on the Products:					
Grade of Product			Dimensions, inch (mm)			Material conforms to quality of alloy: 6061 T651					
			1.75"X48.5"X144.9" 44.450X1231.9X3670.3			Product conforms to all requirements of: ASTM B209-14; SAE AMS-QQ-A-250/11A (2008); SAE AMS-4027 Rev. N (2014). This product conforms to European Union RoHS Directive 2011/65/EU					
Mechanical Properties											
The Condition of Tested Standards	Lot No.	Heat lot No.	HT Charge No.	Sampling direction	Tensile Strength, Rm / Cui, ksi		Yield Strength, Rp0.2% / Rm, ksi		Elongation, %		Hardness, HBW
					min	max	min	max	min	max	
Required				LT	42.0	-	35.0	-	8	-	-
-	848735	12-5159	06037	LT	47.4	47.6	43.2	44.6	12.2	13.8	-
Chemical Composition, %											
Element	Silicon Si	Iron Fe	Copper Cu	Manganese Mn	Magnesium Mg	Chromium Cr	Zinc Zn	Titanium Ti			
Required	0.40 - 0.8	0.7	0.15 - 0.40	0.15	0.8 - 1.2	0.04 - 0.35	0.25	0.15	-	-	-
Contents	0.66	0.32	0.16	0.04	0.9	0.05	0.23	0.10	-	-	-
Element									Other Elements		Aluminum Al
Required									Each	Total	remainder
Contents									0.05	0.15	remainder
Other Tests											
Method	Macro-structure	Micro-structure	UT	K1c	Electro-conductivity, IACS%	SCF	Content H2 of metals, cm3/100gr	Raw material used for manufacturing supplied products was tested for compliance with international radiation safety regulations during incoming inspection. Russia is country of melt and manufacture. No Weld Repair			
Result	-	-	-	-	-	-	0.17				

On behalf:

KUMZ J.S.Co.

Date:

10.08.2017

QCB Inspector

Zyryanova K.V.

Inspection Department Engineer

Alehina N.V.



The Certificate has been agreed electronically.

Form № QAD/3-003, Revision 03

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL 6061-T6/T62 ALUMINUM SHEET OR PLATE
SPECIFICATION:
QC-A-250/11 OR AMS-QC-A-250/11
OR AMS-4025 OR 4027
OR ASTM B209

△ PART NUMBER: M6061T6S XXX X W WWW
THK WIDTH

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S 500X3.500

△ PREFERRED SIZE: XXX BY 4FT BY 8FT FOR SHEET

C	ADD PLATE AND T6S1 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (ZN DB-1).	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
SHEET 1 OF 1			
REV. C			
SCALE			
6061-T6 SHEET/PLATE SPEC NTS			
COPYRIGHT © 2001 BY DART AEROSPACE LTD			

2018 MAR 13
EAS 18-605

APPROVED

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T651.750x12.000

PO / BATCH NO.: P0040267/5089472

DATE: 18/07/06

MATERIAL CERT REC'D: Kes

THICKNESS ORDERED: 1.750"

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: 1.750"

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

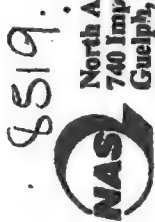
DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM B209
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT: 12-5159
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT/P.O.</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

RSS-1303

51432

17336

6870 Highway 42 East
Chent, KY 41045-9615
(502) 347-6000

METALLURGICAL TEST REPORT

Certificate: 371391 11 Mail To: Ship To: Date: 1/15/2018 Page: 1
Customer: 007080 003 1 Steel: 303 Finish: CD Corrosion:
Your Order: MM6001 NAS Order: IN 0257533 09 Heat Treat Code: 44,554 Red Ratio: 69.4 :1

PRODUCT DESCRIPTION

Round Bar, Annealed, Cold Draw
UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/16
AMS 5640V TYPE 1, Q08-7643 CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

REMARKS:

COMPLIES W/REQUIREMENTS OF ENR 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. EAF+ROD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Shid # Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BJ1762 6	1.0000		1.073	144.00	11	1	

CHEMICAL ANALYSIS CHN(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# 12323
Chemical Analysis per ASTM A751/14a

Heat	C %	CO %	CR %	CU %	NI %	MO %	NI %	P %
620N	.026	.09	17.11	.31	1.92	.268	.036	.031
S %	SI %							
	.3350							

MECHANICAL PROPERTIES

Product Id	1 d o i c i	HB	.2YS	UTS	RA	%	Elng % 4D
BJ1762 6	RL	224.0	80.28	106.52	34.99		25.11

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/15/2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:

PART NUMBER:

ASTM A582
M303R10.DDD
D/A

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
MD

B	REFORMAT DMG. ADD SPECS (2N D8-1).	CP	10.01.05
A	NEW ISSUE	CS	01.12.20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

DART AEROSPACE LTD	
HAWKESBURY, ONTARIO CANADA	
DRAWING NO.	M303R
TITLE	303 ROUND BAR
SCALE	NTS
COPYRIGHT	2001 BY DART AEROSPACE LTD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 303R1.000

PO / BATCH NO.: P0040267/5289464

DATE: 18/07/06

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.00"

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 1.00"

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM A592
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	MT: 620M
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT/ID</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

TPI Work Test Certificate



TUBE INVESTMENTS OF INDIA LIMITED
TUBE PRODUCTS OF INDIA - MODULE - 1
POST BOX NO.4 & 18, M T H ROAD, AVADI, CHENNAI - 600054



murugappa

Customer : TC No : PAE/8C17A0113
Order No. : Date : 05-OCT-17
Description : PRECISION STEEL TUBES - CDW
Specification : ASTM A513/A513M-15 T5 C1020
Condition : SKA
Bundle No's : 017016898,017016899,017016900,017016901,017016996,017016997,017016998,017016999,017017000
Cust Part No :
Bundle : CUSTOMER SIZE / CONDITION / QUANTITY / GROSS WEIGHT / TAG MARKING / WO.NO. / SPEC &
Tagging : GRADE / DESTINATION / BUNDLE NO / COUNTRY OF ORIGIN.
Tube Marking : P.O.NO. / TPI-ED / SIZE / SPEC / CONDITION / TAG MARKING / HEAT NO. / MADE IN INDIA.
P. Uom : Inches
Size : 0.875" OD X 0.635" ID X 0.120" WT X 20'- 24' R/L

Quantity In : 18290.682 Ft

LADLE ANALYSIS :

Process	Heat No.	%C	%Mn	%P	%S	%Si	%Al	%Cr	%Ni	%Cu	%Nio
Min	17202415	.18	.3								
Max		.23	.6	.035	.035						
Obs		.191	.507	.007	.004	.008	.035				

Full Section Longitudinal Tensile Test at Room Temp

Test	Heat No.	Y.S	T.S	Elong.
Min		379	448	10
Max				
		MPA	MPA	%
OBS	17202415	447.09	525.99	24

Rock well

Hardness	OD	ID
75		
HRB		
82		-

Roughness

OD	ID

Dimensions in : Inches

Spec	OD	ID	WT	Len
Min	.875	.63		240
Max	.88	.635		288
OBS-Min	.877	.631	0	267.283
OBS-Max	.879	.633	0	284.016

Technological Tests :

Test	Spec	Result
Crushing		-
Flaring		-
Flattening		-
Flanging		-
Rev. Flang.		-
Elong.Gaug.Len		

Non-Destructive Tests :

Test	Spec	Result
Straightness	0.76/1000 MM MAX	0.30 / 1000
Eddy Current	100	100% TESTED OK
Visual		DEFECT FREE
Ultrasonic Test		-
Application Testing		

This is to certify that the goods are supplied as per the purchase order and specification Requirements

Prepared by : N. Arun
Quality Shift Incharge Signature:

for Tube Investments of India
Unit: Tube Products of India

N. Arun
Mathavan.M
Mgr-Quality-IBP-TP

TCM 78/120

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5

PART NUMBER: MT-A513-T-10.DDDJWJT.TTTJ

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW RELEASE	17-855	17.09.08	VM	WM
B	TYPE 5 ADDED, TEMPLATE UPDATED	17-790	17.12.13	VM	ML

DART AEROSPACE	
Headquarters, Crown, Canada	
TITLE: ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)	
PART NO.	REV
MT-A513-T	B
TOLERANCES UNLESS OTHERWISE SPECIFIED: DIMENSIONS IN INCHES FRACTIONS & DECIMALS DIMENSIONS APPLY AFTER FINISHING	
DESIGNED BY: VM 17/12/13	TOLERANCES:
DRAWN BY: VM 12/13/2017	XXX ± .005
CHECKED BY: ML 12/20/2017	XXX ± .1
APPROVED BY: DP 12/20/2017	XXX ± .1
SCALE: NTS	SHEET 1 OF 1
THE DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES SPECIFIED ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-AS13-T-0.8750W0.120
DATE: 18/07/06

PO / BATCH NO.: P0040267/5089470

MATERIAL CERT REC'D: Yes
QUANTITY RECEIVED: 107 ft
QUANTITY INSPECTED: 107 ft
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.8750"
THICKNESS RECEIVED: 0.8750"
SHEET SIZE ORDERED: —
SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ASTM A 513 Type 5
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	MT: 17202415
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT / PD</u>		SIGNED OFF BY: _____	
DATE: <u>18/07/06</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in